



**Escanaba Forest Management Unit
Compartment Review Presentation
Compartment #078 Entry Year: 2013
Compartment Acreage: 1386 County: Delta**

Revision Date: July 14, 2011

Stand Examiner: Dan Racine, Forester, FMD; Bill Rollo, Wildlife Division

Legal Description: T37N R24W Sections 7, 8, and 9

Management Goals: The major upland cover type within this compartment is northern hardwoods. There is a minor amount of acreage in aspen, birch, and other mixed upland deciduous and conifer types. The major lowland cover type within this compartment is cedar. There is a minor amount of acreage in the lowland conifer cover types. The management within the upland cover types will focus primarily on the northern hardwoods with four stands consisting mostly of sugar maple prescribed for selection harvest. Some of these stands extend into compartment 77 to the south prescribed during the 2009 entry period. One aspen clearcut and hemlock group selection is proposed for harvest. Within the lowland cover types one cedar stand is prescribed with the intent of regenerating and preserving a mix of lowland conifer and deciduous species within these types. One tamarack seed tree and black spruce clearcut are prescribed to regenerate those over mature cover types.

Soil and Topography: The topography is level to slightly rolling. The soils are poorly drained, somewhat poorly drained sand and well drained sands and very poorly drained, extremely acid mucks and peats. The major soil series are Deford, Wainola, Rousseau, Dawson, Greenwood, and Kinross.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment is part of a large block of state land that extends south into Menominee County. Ownership to the east is mostly private. Most of the land in and around this compartment is forestland with little development except camps and seasonal residences.

Unique, Natural Features: The Seven Mile Marsh SCA runs through the center of the compartment.

Archeological, Historical, and Cultural Features: None known

Special Management Designations or Considerations: None

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations: This compartment is located within the Green Bay Lake Plain Management Area. Nearly 60% of this compartment is extensive cedar swamp that exhibits cedar regeneration in canopy gaps. Cedar regeneration is very uncommon in the Escanaba Forest Unit. Although Wildlife Division did not support timber harvest in 2 small stands containing higher quality cedar (Stands 14 and 15), we are open to a FMD proposal to conduct a well-planned and monitored cedar regeneration experiment in poorer quality cedar that does not provide good winter cover for wildlife—possibly Stand 35. Likewise, Wildlife Division remains concerned about harvesting within hemlock stands due to unreliable regeneration in the past, but defers to a FMD proposal to place regeneration gaps within Stand 53. A corridor of tree bog that bisects the compartment will remain in “special conservation area” status in which natural processes will be allowed to operate. This compartment contains 3 forest openings that will continue

to be maintained in herbaceous cover. Two of these openings will likely be maintained via a share-cropping agreement with a local farm operator.

Mineral Resource and Development Concerns and/or Restrictions: Sections 7 – 9, T37N-R24W, Delta County Surface sediments consist of medium textured glacial till and lacustrine (lake) sand and gravel. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Trenton Limestone underlies the glacial drift. The Trenton is quarried for dolomite/stone ten miles to the northeast, west of Escanaba. A gravel pit is located in Section 10, and there appears to be good potential on the east end of the compartment. No economic oil and gas production has been found in the UP.

Vehicle Access: The vehicle access is fairly good in the majority of the compartment. The Seven Mile Marsh Road provides access through the center of the compartment. Several secondary roads begin at the Seven Mile Marsh Road and travel through the west portion of the compartment. Several roads to the east part of the compartment are controlled by private landowners. Access for some of the timber management will require permission from private landowners.

Survey Needs: Two corners need to be set to the east of the Seven Mile Marsh road and possibly two within compartment 77.

Recreational Facilities and Opportunities: The Forest Island ORV Trail is located nearby. Other opportunities include hunting, hiking, and dispersed camping.

Fire Protection: This compartment is not high risk for fire. There is adequate vehicle access to the majority of the compartment for fire protection with the exception of some of the lowland areas.

Additional Compartment Information: The Seven Mile Marsh complex SCA is retained.

➤ **The following reports from the Inventory are attached:**

- ◆ **Total Acres by Cover Type and Age Class**
- ◆ **Proposed Treatment Summary**
- ◆ **Proposed Treatments – No Limiting Factors**
- ◆ **Proposed Treatments – With Limiting Factors**
- ◆ **Stand Details (Forested and Nonforested)**
- ◆ **Dedicated and Proposed Special Conservation Areas**

➤ **The following information is displayed, where pertinent, on the attached compartment maps:**

- ◆ **Base feature information, stand boundaries, cover types, and numbers**
- ◆ **Proposed treatments**
- ◆ **Details on the road access system**

Table 1 – Total Acres by Cover Type and Age Class



	Age Class														Total	
	Non-Forested	1-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120 +		Uneren Age
Aspen	0	8	13	34	12	0	0	0	6	0	0	0	0	0	0	73
Cedar	0	0	0	0	0	0	0	0	44	0	0	0	726	0	0	770
Cropland	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	15	9	0	24
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Conifers	0	0	0	0	0	0	0	0	13	2	0	0	0	0	0	15
Lowland Shrub	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	37	1	0	133	0	0	170
Marsh	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Mixed Upland Deciduous	0	0	10	6	0	0	0	0	0	0	0	0	0	0	0	16
Northern Hardwood	0	0	0	0	0	15	0	0	0	181	0	0	0	0	0	196
Paper Birch	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
Tamarack	0	0	11	0	0	0	0	0	15	15	0	0	0	0	0	42
Upland Conifers	0	0	0	0	8	0	0	0	0	0	0	0	0	0	9	17
Upland Mixed Forest	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	25
Water	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	36	8	36	65	21	15	0	0	78	235	1	0	874	9	9	1386



Table 2 – Proposed Treatment Summaries

Escanaba Mgt. Unit
Year of Entry 2013

Compartment 078
Total Compartment Acres: 1386

Acres by Treatment Type

Commercial Harvest - 190	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 19	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

		Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen		6	0	0	0	0	0	6
Cedar		0	0	0	4	0	0	4
Hemlock		0	15	0	0	0	0	15
Lowland Spruce/Fir		1	0	0	0	0	0	1
Northern Hardwood		0	148	0	0	0	0	148
Tamarack		0	0	15	0	0	0	15
Total		7	163	15	4	0	0	190



Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
5	33078005-Cut	80.2	4110 - Sugar Maple Association	High Density Log	85	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
<p><u>Prescription</u> Mark to retain approximately 80 BA, creating regeneration gaps where opportunities exist. Retain the species diversity.</p> <p><u>Specs:</u></p> <p><u>Other</u> This stand was part of the Government Fields hardwood sale completed in 1997. The BA ranges from 90-160. The understory consists of sugar maple poles and seedling/sapling beech and balsam fir. This stand will be harvested with stands in compartment 77 to the south.</p> <p><u>Comments:</u></p> <p><u>Next</u> Monitor regeneration at appropriate intervals with an acceptable regeneration mix of any northern hardwoods species.</p> <p><u>Steps:</u></p>									
8	33078008-Cut	17.9	4110 - Sugar Maple Association	High Density Log	85	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
<p><u>Prescription</u> Mark to retain approximately 80 BA, creating regeneration gaps where opportunities exist. Maintain the species diversity.</p> <p><u>Specs:</u></p> <p><u>Other</u> The access to this stand will be through private property. Consider managing this stand with the hardwood ridge to the south in compartment 33</p> <p><u>Comments:</u> in subsequent treatment periods. Gravel pit on the north end of this stand. May be limited to winter cut only due to access through private.</p> <p><u>Next</u> Monitor the regeneration at appropriate intervals. Acceptable regeneration mix of any northern hardwood species.</p> <p><u>Steps:</u></p>									
22	33078022-Cut	5.6	4111 - S.Maple, Hard Mast Association	High Density Log	85	Harvest	Single Tree Selection	4111 - S.Maple, Hard Mast Association	Cmpt. Review Proposal
<p><u>Prescription</u> Mark to retain approximately 70 BA, creating regeneration gaps where feasible. Maintain species diversity.</p> <p><u>Specs:</u></p> <p><u>Other</u> This stand will be treated with stands in compartment 77 to the south. There is quite a bit of beech regeneration currently.</p> <p><u>Comments:</u></p> <p><u>Next</u> Monitor regeneration at appropriate intervals. Acceptable regeneration mix of any northern hardwood species.</p> <p><u>Steps:</u></p>									
30	33078030-Cut	44.4	4110 - Sugar Maple Association	High Density Log	85	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
<p><u>Prescription</u> Mark to retain approximately 80 BA, creating regeneration gaps where feasible. Maintain species diversity.</p> <p><u>Specs:</u></p> <p><u>Other</u> The north end of stand has places heavier to a pole stand. BA ranges between 110- 150 on the plots.</p> <p><u>Comments:</u></p> <p><u>Next</u> Monitor regeneration at appropriate intervals with an acceptable species mix of any northern hardwood species.</p> <p><u>Steps:</u></p>									
37	33078037-Cut	0.9	6122 - Black Spruce	High Density Pole	90	Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut, cutting all merchantable trees except retain any cedar if found for retention.</p> <p><u>Specs:</u></p> <p><u>Other</u> Mostly black spruce broken out from stand 36. Cut in winter months. The ORV trail needs to be signed during harvest activity.</p> <p><u>Comments:</u></p> <p><u>Next</u> Monitor regeneration at appropriate intervals. Acceptable regeneration mix of black spruce and tamarack.</p> <p><u>Steps:</u></p>									



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
38	33078038-Cut	6.3	4135 - Aspen, Cedar	High Density Log	71	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut with reserves. All trees cut except a retention patch that includes cedar volumes.</p> <p><u>Specs:</u></p> <p><u>Other</u> Overmature aspen stand some small upland island ridges. The retention patch should be on the south end of the stand between stand 38 and</p> <p><u>Comments:</u> 42. The ORV trail needs to be signed during harvest activity.</p> <p><u>Next</u> Monitor regeneration at appropriate intervals with an acceptable regeneration mix of aspen and mixed conifer species.</p> <p><u>Steps:</u></p>									
42	33078042-Cut	15.5	6121 - Tamarack	High Density Pole	70	Harvest	Seed Tree with Reserves	6121 - Tamarack	Cmpt. Review Proposal
<p><u>Prescription</u> Seed tree harvest with reserves retaining 4-5 quality seed tree tamarack per acre. Leave a retention patch that includes some cedar, all other</p> <p><u>Specs:</u> cedar will be harvested.</p> <p><u>Other</u> Pockets of tag alder, white birch, and cedar seedling present. The retention patch should be on the west side of the stand that will capture much</p> <p><u>Comments:</u> of the cedar volumes. Expect approximately 20-30 cords of cedar to be harvested. The ORV trail needs to be signed during harvest activity.</p> <p><u>Next</u> Monitor regeneration at appropriate intervals. Acceptable regeneration mix of tamarack and other lowland conifer species.</p> <p><u>Steps:</u></p>									
43	33078043-Cut	4.2	6120 - Lowland Cedar	High Density Pole	116	Harvest	Shelterwood	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
<p><u>Prescription</u> Shelterwood harvest this stand cutting all merchantable trees with the exception of leaving some maple or birch and leaving a retention patch</p> <p><u>Specs:</u> where the cedar volumes are highest. Cut any high risk pine. Leave any hemlock.</p> <p><u>Other</u> The retention patch is in the northwest finger and will capture much of the cedar volumes. The stand currently has balsam fir regeneration along</p> <p><u>Comments:</u> with some aspen/balm. Any hemlock and pine would be along the south line of the stand. Poor quality stand. Expect approximately 15 cords of cedar to be harvested. The ORV trail needs to be signed during harvest activity.</p> <p><u>Next</u> Monitor the regeneration at appropriate intervals. Acceptable regeneration mix of mixed conifer/deciduous.</p> <p><u>Steps:</u></p>									
53	33078053-Cut	14.6	42350 - Upland Hemlock	High Density Pole	116	Harvest	Group Selection	42201 - Natural White Pine, Mixed Deciduous	Cmpt. Review Proposal
<p><u>Prescription</u> Group selection creating approximately 2 chain wide canopy gaps spaced throughout the stand. Possibly 4-6 of these gaps would be feasible.</p> <p><u>Specs:</u></p> <p><u>Other</u> This stand was harvested under the CTS Hemlock sale. The stand currently has a few stump sprouts but no other regeneration. The stands</p> <p><u>Comments:</u> similar to this on the private that have been opened up have a good component of pine regeneration. The current BA is variable but approximately 150 BA average. Access will be from the private to the east. The ORV trail needs to be signed during harvest activity.</p> <p><u>Next</u> Monitor the regeneration of the canopy gaps at appropriate intervals. Acceptable regeneration mix of pine and hemlock.</p> <p><u>Steps:</u></p>									
7	NF_33078007- NonFor	7.7	Non-Forested		0	Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal
<p><u>Prescription</u> Currently under sharecropping contract until 12/31/2011. Renew sharecropping contract or plant into wildlife mix.</p> <p><u>Specs:</u></p> <p><u>Other</u> This sharecropping contract includes two openings in Compartment 78 and seven openings in Compartment 79</p> <p><u>Comments:</u></p> <p><u>Next</u></p> <p><u>Steps:</u></p>									

**Table 3 -- Treatments Prescribed
with No Limiting Factor**



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
19 NF_33078019-NonFor	8.2	Non-Forested		0	Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal

Prescription This opening is under a sharecropping agreement that expires 12/31/2011. FTP number W-33-594. Renew sharecropping contract or plant to a
Specs: wildlife mix.

Other
Comments:

Next
Steps:

31 NF_33078031-NonFor	2.6	Non-Forested		0	Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal
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Prescription This opening was created in 1991, seeded and mowed in 1992 and 1993. Replant to a wildlife mix with cooperation with a sportsmen group if
Specs: funds and personnel are available.

Other
Comments:

Next
Steps:

**Total Treatment
Acreage Proposed: 208.1**

Table 4 -- Treatments Prescribed with a Limiting Factor



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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Prescription Specs:

Other Comment:

Next Steps:

Limiting Factor and No Treatment Reason

Total Treatment Acreage Proposed: 0

**Out of YOE -- Treatments
Prescribed with No Limiting Factor**

Year of Entry: 2013



Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
33002_OutOfYOE-Cut	0.7				Harvest	Clearcut with Reserves	6129 - Mixed Coniferous Lowland Forest	Cmpt. Review Proposal

Prescription Final harvest this stand, leaving some seed trees. Harvest this stand with stand 13 in comp 1.

Specs:

Other Decent quality tamarack and spruce stand.

Comments:

Next Steps: Manage this stand for a mix of tamarack and spruce primarily, but a mix with other lowland species is acceptable.

**Total Treatment
Acreage Proposed: 0.7**



Stand	Escanaba Mgt. Unit		5 – Forested Stands			Compartment: 078	Year of Entry: 2013
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
1	4112 - Maple, Beech, Cherry Association	High Density Pole	15.2	45		Some larger diameter Beech, and maple.	
2	6120 - Lowland Cedar	High Density Pole	313.0	116		Some cedar regeneration along the winter road between pre-inventory stands 1 and 10. This stand is part of the proposed 7 mile marsh BSA.	
3	4130 - Aspen	High Density Pole	12.3	29		This stand is coming into merchantability.	
4	4110 - Sugar Maple Association	High Density Log	14.8	85		This stand was cut on the log-a-load sale. The aspen is full coverage underneath with maple overstory.	
5	4110 - Sugar Maple Association	High Density Log	80.2	85	111-140	Last cut in 1997.	
6	4199 - Other Mixed Upland Deciduous	High Density Pole	10.3	16		There is some merchantable balm. Some cedar along the edge of the stand. Last cut in 1995.	
8	4110 - Sugar Maple Association	High Density Log	17.9	85	141-170	Requires access through private. Sugar maple, basswood, ironwood, beech, hemlock, white ash.	
9	6121 - Tamarack	Medium Density Pole	15.1	87		Within proposed BSA. Alder and buckthorne within the stand.	
10	6122 - Black Spruce	High Density Pole	15.1	88		Within proposed BSA. Two separate stands merged together.	
11	4130 - Aspen	High Density Pole	5.6	29		Mix of merchantable and non-merchantable aspen.	
12	4130 - Aspen	High Density Sapling	7.9	7		Part of the log-a-load sale. Mix of aspen and balm regeneration with a few scattered larger diameter trees left.	
13	4130 - Aspen	High Density Pole	13.1	15		Last cut in 1996. A couple of hemlock scattered within the stand.	
14	6120 - Lowland Cedar	High Density Pole	6.4	116	141-170		
15	6120 - Lowland Cedar	High Density Pole	7.2	116			
16	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Pole	8.5	Uneven Age		Some hemlock regeneration found on very south end just off the road with a mix of pine and balsam fir. Variable stand with the hemlock piece that was cut included within this stand as an inclusion.	
17	6120 - Lowland Cedar	High Density Pole	80.5	116		This stand is a combination of several stands combined after field data collection. Several pockets with 80+% cedar.	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
18	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	5.8	27		Variable sizes of submerchantable and merchantable balsam poplar and aspen.
20	4112 - Maple, Beech, Cherry Association	High Density Pole	17.6	85	51-80	Look at cutting the next treatment period. The north end has a significant amount of balsam fir underneath with majority sugar maple poles to the south of the road.
21	4130 - Aspen	High Density Pole	11.5	29		Mix of aspen and balm.
22	4111 - S.Maple, Hard Mast Association	High Density Log	5.6	85	81-110	
23	6122 - Black Spruce	High Density Pole	3.7	81		This stand is within the 7 mile marsh road treed bog SCA.
24	4140 - Other Upland Deciduous	High Density Sapling	1.8	19		This stand continues to the south into compartment 77.
25	6122 - Black Spruce	High Density Pole	90.1	116		This stand is part of the treed bog along the 7 mile marsh road. Some white birch here as well.
26	6122 - Black Spruce	Medium Density	42.4	116		This stand is part of the treed bog along the 7 mile marsh road.
27	6122 - Black Spruce	High Density Pole	18.0	88		This stand is part of the treed bog SCA along the 7 mile marsh road.
30	4110 - Sugar Maple Association	High Density Log	44.4	85	111-140	
32	4134 - Aspen, Spruce/Fir	High Density Pole	4.2	22		Mostly coming into merchantable aspen.
33	6120 - Lowland Cedar	High Density Pole	6.1	116		Some white birch here as well. Dead spruce and blowdown.
34	6120 - Lowland Cedar	Medium Density Pole	6.9	116		Originally typed as C type with C management objective. The short lived species were cut out and some balsam fir is regenerating. Most of the beech regeneration is along the edge of the hardwood stand. Average of about 550 TPA regenerating of all species combined. Significant amount of raspberry bushes throughout. No cedar regeneration found. Check next decade to see how this stand is filling in.
35	6120 - Lowland Cedar	High Density Pole	201.9	116		Pockets of cedar regeneration throughout this stand. Could look to expand. Cedar regeneration on the old winter road that runs SE-NW. Several plots recorded with cedar regeneration that includes 1-3 foot as well as 10-15 foot heights. The 1-3 foot cedar regeneration mostly coincides with the areas that are 10-15 foot tall as well.
36	6120 - Lowland Cedar	High Density Pole	25.2	70		Black spruce stand broken out from this stand to be treated.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
37	6122 - Black Spruce	High Density Pole	0.9	90		This stand was broken out from pre-inventory stand 42. Harvest with adjacent pre-inventory stands 43,47,49.
38	4135 - Aspen, Cedar	High Density Log	6.3	71		
39	42350 - Upland Hemlock	High Density Pole	9.4	126		Some blowdown cedar.
40	42360 - Upland Cedar	High Density Pole	21.7	111		Stand was harvested. Some blowdown. No cedar regeneration found.
41	6120 - Lowland Cedar	High Density Pole	74.7	116		Cedar regeneration in this stand with some thick pockets.
42	6121 - Tamarack	High Density Pole	15.5	70		
43	6120 - Lowland Cedar	High Density Pole	4.1	116		
44	4319 - Mixed Upland Forest	Medium Density	25.3	22		High end of 50-75% canopy closure.
45	6120 - Lowland Cedar	High Density Pole	18.5	76		Combined strip cuts and leave strips into one stand. The strip cuts are balm,balsam fir,spruce.
46	6120 - Lowland Cedar	Medium Density Pole	3.6	116		Buckthorne and alder. Small stream tails out in this stand.
47	4134 - Aspen, Spruce/Fir	Medium Density Pole	12.1	35		Coming into merchantability.
48	6121 - Tamarack	Medium Density	11.2	10		Tamarack seeding into this stand with a mix of larger diameter spruce and cedar.
49	42390 - Mixed Non-Pine Upland Conifers	High Density Pole	8.5	35		The south end of this stand has some blowdown of spruce/fir with most of the diamters being 5-7" DBH. Treatment within the next couple of decades. The north end of the stand has pine regenerating with pockets of hemlock with spruce, fir and red maple.
51	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	12.5	70		Look at treating with pre-inventory stands 56 and 55 as one sale.
53	42350 - Upland Hemlock	High Density Pole	14.6	116		
54	6127 - Lowland Pine	Low Density Pole	2.4	85		This stand was black spruce with hemlock and pine left in the overstory. 770 TPA black spruce and tamarack combined. Harvested under the CTS Hemlock sale.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
7	2113 - Forage Crops	7.7	Yes	Medium (NonForested)	
19	2113 - Forage Crops	8.2	Yes	Medium (NonForested)	
28	6233 - Wet Meadow	7.5	No	Low (NonForested)	
29	6229 - Mixed lowland shrub	4.3	No	Low (NonForested)	
31	3102 - Grass	2.6	N/A	Unspecified	
50	50 - Water	0.9	No	Low (NonForested)	
52	629 - Mixed non-forested wetland	5.1	No	Low (NonForested)	

**7 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS**

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

Stand	SCA Type	SCA Name	Acres	Comments
23	Unique Site - SCA	33078023	3.7	SCA- This stand is part of a corridor that includes the seven mile marsh treed bog.
25	Unique Site - SCA	33078025	90.1	SCA- This stand is part of a corridor that includes the 7 mile marsh treed bog.
26	Unique Site - SCA	33078026	42.4	SCA- This stand is part of a corridor that includes the 7 mile marsh treed bog.
27	Unique Site - SCA	33078027	18.0	SCA- This stand is part of a corridor that includes the 7 mile marsh treed bog.



8 – DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.

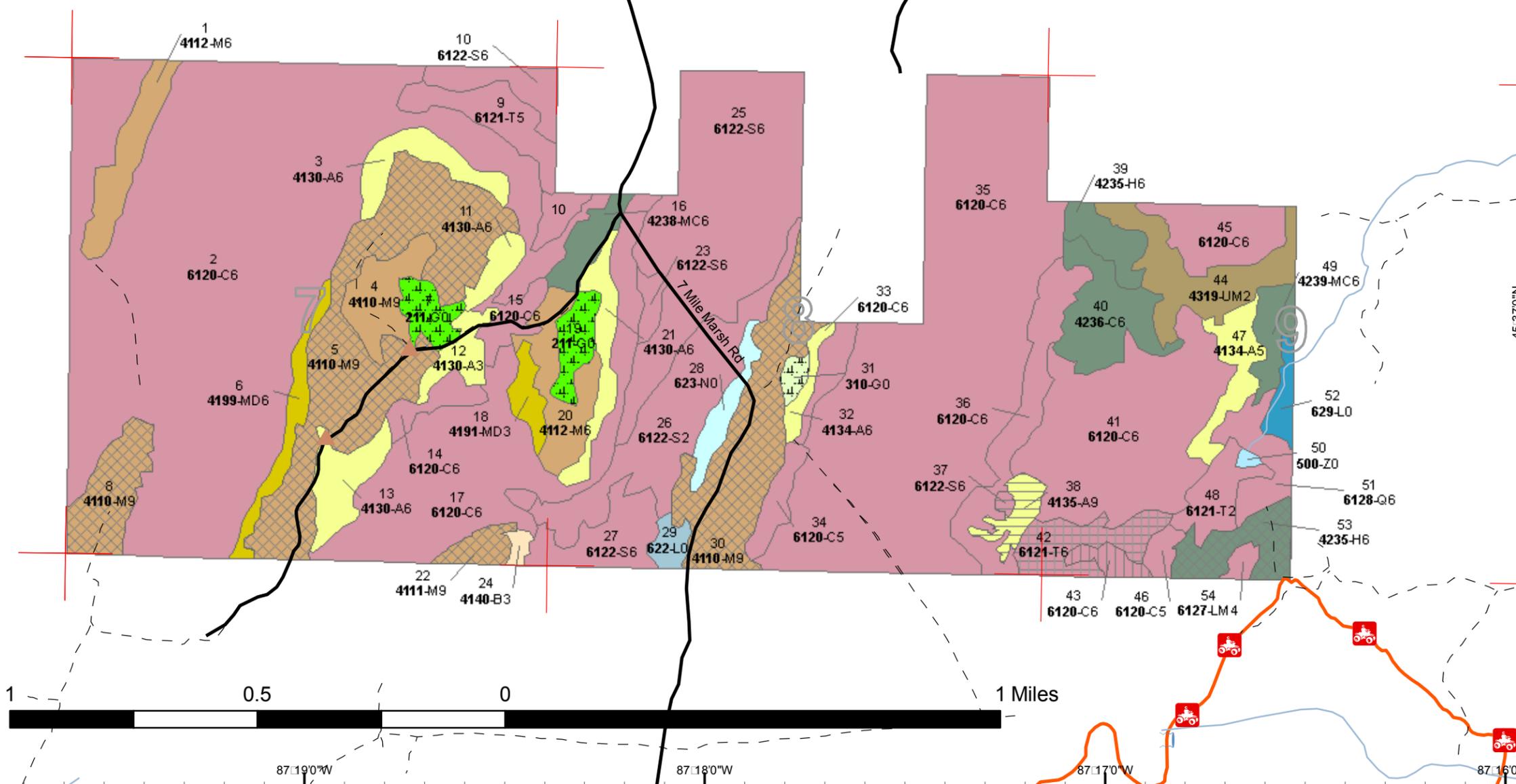
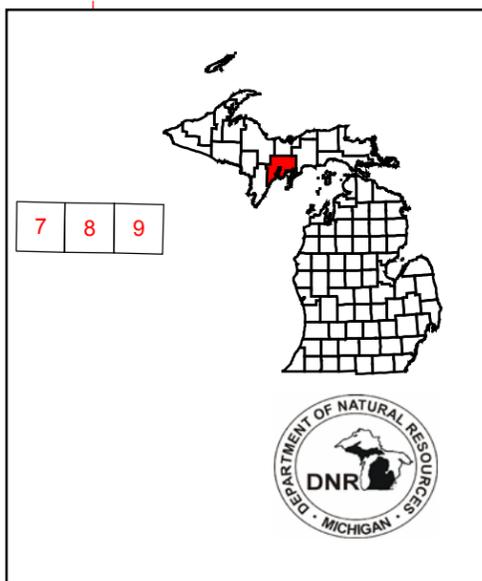
Cover Type & Treatment Map

Compartment 78
 T37N, R24W, Sec. 7-9
 County: Delta
 Unit: Escanaba
 YOE: 2013
 Acres: 1,386 GIS Calculated
 Stand Examiner: Dan Racine
 Map Revised: 7/28/2011
 Map Phase: Pre-Review

Legend

- | | | | |
|---|--|--|---|
| <ul style="list-style-type: none"> Miris Corners Remonumented Section Corners Paved Roads Poor Dirt Roads ORV Trail ORV Trails Berm Intermittent Stream/Drain Stream Lakes and Rivers | <h3>Treatments</h3> <ul style="list-style-type: none"> Clearcut (w/Reserves, Patch/Strip) Seed Tree (w/Reserves) Shelter Wood (w/Reserves) Selection (Group, Single Tree) Other Treatment - See Comments | <h3>Forest Stands</h3> <p>Level 3</p> <ul style="list-style-type: none"> 411 - Northern Hardwood 413 - Aspen Types 414 - Other Upland Deciduous 419 - Mixed Upland Deciduous 423 - Other Upland Conifers 431 - Upland Mixed Forest 612 - Lowland Coniferous Forest | <h3>Non-Forest Stands</h3> <p>Level 3</p> <ul style="list-style-type: none"> 211 - Cropland 310 - Herbaceous Openland 500 - Water 622 - Lowland Shrub 623 - Emergent Wetland 629 - Mixed non-forested wetland |
|---|--|--|---|

Stand # **23** Stocking Density
(412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



1 0.5 0 1 Miles

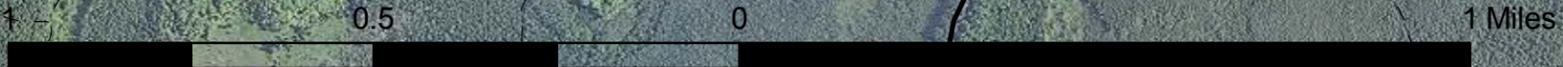
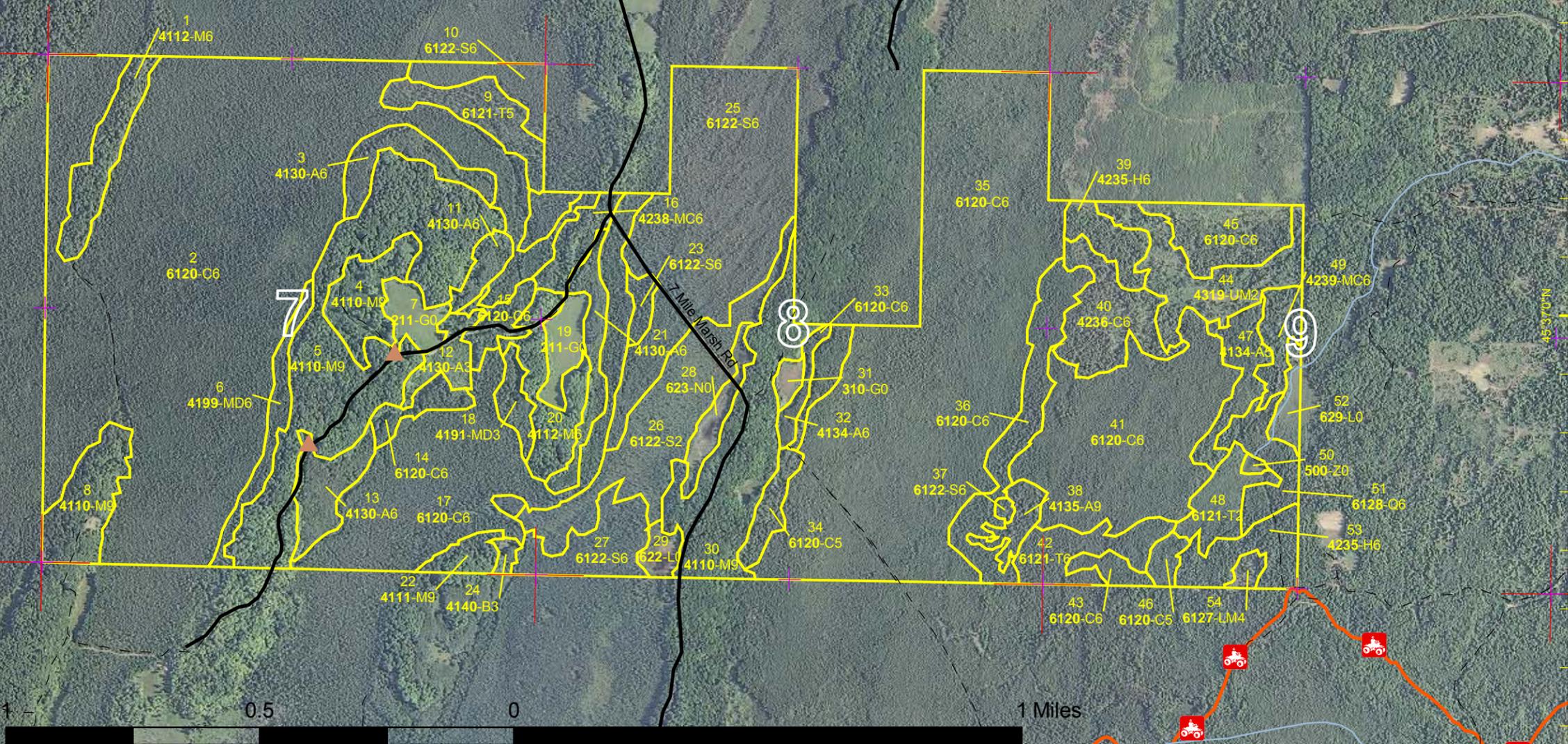
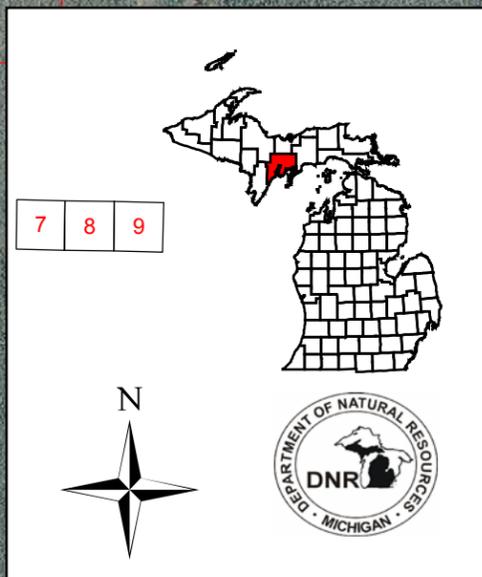
Stand Boundary Map

Compartment 78
 T37N, R24W, Sec. 7-9
 County: Delta
 Unit: Escanaba
 YOE: 2013
 Acres: 1,386 GIS Calculated
 Stand Examiner: Dan Racine
 Map Revised: 7/28/2011
 Map Phase: Pre-Review

Legend

- | | | |
|--------------------------------|---------------------------------|----------------------------------|
| — Miris Corners | □ Stand Boundaries | Non-Forest Stands |
| + Remonumented Section Corners | Forest Stands | Level 3 |
| — Paved Roads | Level 3 | 211 - Cropland |
| - - Poor Dirt Roads | 411 - Northern Hardwood | 310 - Herbaceous Openland |
| — ORV Trail | 413 - Aspen Types | 500 - Water |
| ORV Trails | 414 - Other Upland Deciduous | 622 - Lowland Shrub |
| ▲ Berm | 419 - Mixed Upland Deciduous | 623 - Emergent Wetland |
| — Intermittent Stream/Drain | 423 - Other Upland Conifers | 629 - Mixed non-forested wetland |
| — Stream | 431 - Upland Mixed Forest | |
| | 612 - Lowland Coniferous Forest | |

Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



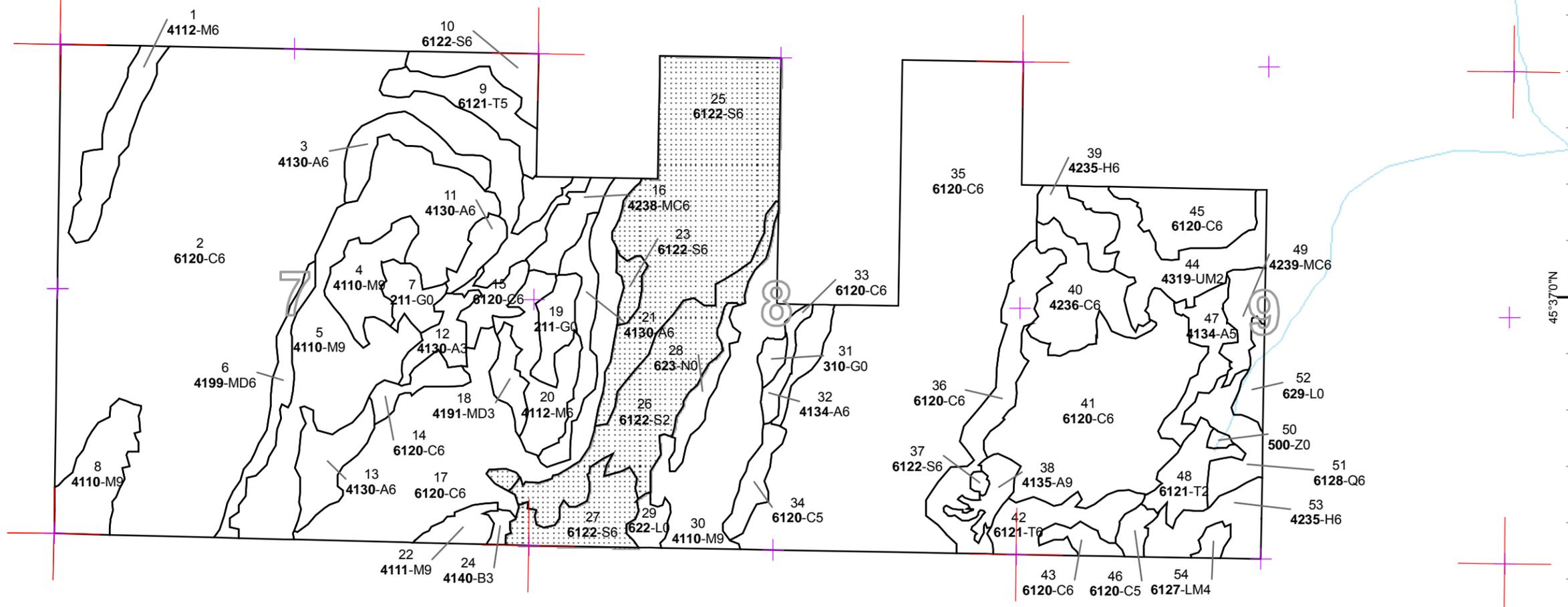
Dedicated & Proposed Special Conservation Area Map

Compartment 78
 T37N, R24W, Sec. 7-9
 County: Delta
 Unit: Escanaba
 YOE: 2013
 Acres: 1,386 GIS Calculated
 Stand Examiner: Dan Racine
 Map Revised: 7/28/2011
 Map Phase: Pre-Review

Legend		Forest Stands	Non-Forest Stands
—	Miris Corners	Level 3	Level 3
+	Remonumented Section Corners	411 - Northern Hardwood	211 - Cropland
□	Stand Boundaries	413 - Aspen Types	310 - Herbaceous Openland
⋯	Proposed Special Conservation Areas	414 - Other Upland Deciduous	500 - Water
⊠	SCA - Special Conservation Area	419 - Mixed Upland Deciduous	622 - Lowland Shrub
⊞	SCA Removal	423 - Other Upland Conifers	623 - Emergent Wetland
—	Dedicated Special Conservation Areas	431 - Upland Mixed Forest	629 - Mixed non-forested wetland
—	Cold Water Streams	612 - Lowland Coniferous Forest	

Stand #	Stocking Density
23	
(412)0 - A7	
Level 3	OI
Level 4	Code
Cover Type Code	

7 8 9



87°20'0"W 87°19'0"W 87°18'0"W 87°17'0"W 87°16'0"W

45°38'0"N

45°37'0"N

45°38'0"N

45°37'0"N